

Circuit-breaker, Basic device with standard knob, 32 A, Without overload releases, Screw terminals



Part no. PKE32
121722
EL Number 4355182
(Norway)

General specifications		
Product name		Eaton Moeller® series PKE Motor-protective circuit-breaker
Part no.		PKE32
EAN		4015081195329
Product Length/Depth		101 millimetre
Product height		102.5 millimetre
Product width		45 millimetre
Product weight		0.346 kilogram
Compliances		Contact Manufacturer
Certifications		UL Category Control No.: NLRV IEC/EN 60947-4-1 CE UL CSA-C22.2 No. 60947-4-1-14 CSA UL 60947-4-1 CSA Class No.: 3211-05 UL File No.: E36332 IEC/EN 60947 VDE 0660 CSA File No.: 165628
Product Tradename		PKE
Product Type		Motor-protective circuit-breaker
Product Sub Type		None
Catalog Notes		IE3-ready devices are identified by the logo on their packaging.
Features & Functions		
Actuator type		Turn button
Features		Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Fitted with:		Standard knob
Functions		Motor protection Line and cable protection Motor protection for heavy starting duty System protection
Number of poles		Three-pole
General information		
Degree of protection		Terminals: IP00 IP20
Lifespan, electrical		50,000 operations (at 400V, AC-3)
Lifespan, mechanical		50,000 Operations (Main conducting paths)
Operating frequency		60 Operations/h
Overload release current setting - min		0 A
Overload release current setting - max		32 A
Overvoltage category		III
Pollution degree		3
Product category		Motor protective circuit breaker
Protection		Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)		6000 V AC
Suitable for		Also motors with efficiency class IE3
Temperature compensation		-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range
Ambient conditions, mechanical		
Shock resistance		25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Climatic environmental conditions		
Altitude		Max. 2000 m
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		55 °C
Ambient operating temperature (enclosed) - min		25 °C
Ambient operating temperature (enclosed) - max		40 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		80 °C
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities		
Terminal capacity (flexible with ferrule)		1 x (1 - 6) mm ² , ferrule to DIN 46228 2 x (1 - 6) mm ² , ferrule to DIN 46228
Terminal capacity (solid)		1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
Terminal capacity (solid/stranded AWG)		14 - 10
Stripping length (main cable)		10 mm
Tightening torque		1 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable
Electrical rating		
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated operational current (Ie)		32 A
Rated operational power at AC-3, 220/230 V, 50 Hz		0 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		0 kW
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		32 A
Short-circuit rating		
Short-circuit release		± 20% tolerance, Trip blocks Basic device fixed 15.5 x Iu, Trip Blocks
Switching capacity		
Switching capacity		32 A, AC-3 up to 690 V
Communication		
Connection		Screw terminals
Design verification		
Equipment heat dissipation, current-dependent Pvid		7.5 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		2.5 W
Rated operational current for specified heat dissipation (In)		32 A
Static heat dissipation, non-current-dependent Pvs		0 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss13-27-37-04-01 [AGZ529021])			
Overload release current setting	A	0 - 32	
Adjustment range undelayed short-circuit release	A	0 - 0	
With thermal overload protection		No	
Phase failure sensitive		No	
Switch off technique		Electronic	
Rated operating voltage	V	690 - 690	
Rated permanent current Iu	A	32	
Rated operation power at AC-3, 230 V	kW	0	
Rated operation power at AC-3, 400 V	kW	0	
Power loss	W		
Type of electrical connection of main circuit		Screw connection	
Type of control element		Turn button	
Device construction		Built-in device fixed built-in technique	
With integrated auxiliary switch		No	
With integrated under voltage release		No	
Number of poles		3	
Rated short-circuit breaking capacity Icu at 400 V, AC	kA	0	
Degree of protection (IP)		IP20	
Height	mm	102.5	
Width	mm	45	
Depth	mm	101	